DOCUMENT RESUME

ED 413 875 IR 018 625

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TITLE The Effectiveness of Technology in Schools, '90-'97. Report.
INSTITUTION Software Publishers Association, Washington, DC.
PUB DATE 1997-00-00
NOTE 88p.
AVAILABLE FROM Software Publishers Association, 1730 M St. NW, Suite 700, Washington, DC 20036-4510; World Wide Web: http://www.spa.org
PUB TYPE Books (010) -- Reports - Evaluative (142)
EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS *Academic Achievement; Computer Software Development; Computer Software Selection; Curriculum Development; *Educational Technology; Elementary Secondary Education; *Instructional Effectiveness; Research Reports; Self Concept; *Student Attitudes; *Teacher Student Relationship; *Technological Advancement
IDENTIFIERS Access to Technology; *Technology Integration

ABSTRACT

This report summarizes 219 educational technology research reviews and reports from 1990-1997, from both published and unpublished sources. The report provides software developers and publishers with research that will enable them to improve educational technology. It can also help educators make effective decisions as they attempt to incorporate technology into the curriculum, increase student achievement, and select educational software. The report is divided into three sections: (1) Effects of Technology on Student Achievement; (2) Effects of Technology on Student Self-concept and Attitudes About Learning; and (3) Effects of Technology on Interactions Involving Educators and Students in the Learning Environment. The level of effectiveness of educational technology is influenced by the specific student population, software design, the educator's role, how the students are grouped, and the level of student access to the technology. Educational technology has positive effects on student achievement, attitudes toward learning, and student self-concept. Teacher training gives educators greater comfort in using computers, an understanding of how to integrate software into the curriculum, and increases the desire to use computers. Introducing technology in the learning environment makes learning more student-centered, encourages cooperative learning, and stimulates increased teacher/student interaction. (Contains 226 references.) (SWC)

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